

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/115,832B

DATE: 10/01/1999  
TIME: 17:15:44

Input Set: I115832B.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

```

1  <110> APPLICANT: Ebner et al.
2  <120> TITLE OF INVENTION: Interleukin-20
3  <130> FILE REFERENCE: PF399
4  <140> CURRENT APPLICATION NUMBER: US/09/115,832B
5  <141> CURRENT FILING DATE: 1998-07-15
6  <150> EARLIER APPLICATION NUMBER: 60/052,870
7  <151> EARLIER FILING DATE: 1997-07-16
8  <150> EARLIER APPLICATION NUMBER: 60/060,140
9  <151> EARLIER FILING DATE: 1997-09-26
10 <160> NUMBER OF SEQ ID NOS: 11
11 <170> SOFTWARE: PatentIn Ver. 2.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 705
14 <212> TYPE: DNA
15 <213> ORGANISM: Homo sapiens
16 <400> SEQUENCE: 1
17   tccaggcgagg cagcagctgc aggctgacct tgcagcttgg cggaatggac tggcctcaca 60
18   acctgctgtt tcttcttacc atttccatct tcctggggct gggccagccc aggagcccca 120
19   aaagcaagag gaaggggcaa gggcggcctg ggcccctggc ccctggccct caccaggtgc 180
20   cactggacct ggtgtcacgg atgaaaccgt atgcccgcat ggaggagtat gagaggaaca 240
21   tcgaggagat ggtggccag ctgaggaaca gtcagagct ggcccagaga aagtgtgagg 300
22   tcaacttgca gctgtggatg tccaacaaga ggagcctgtc tccctggggc tacagcatca 360
23   accacgaccc cagccgtatc cccgtggacc tgccggaggc acggtgcctg tgtctgggct 420
24   gtgtgaaccc cttcaccatg caggaggacc gcagcatggt gagcgtgccg gtgttcagcc 480
25   aggttcctgt gcgcgcgcgc ctctgcccgc caccgccccg cacaggcctc tgccgccagc 540
26   gcgcagtcac ggagaccatc gctgtgggct gcacctgcat cttctgaatt acctggccca 600
27   gaagccaggc cagcagcccg agaccatcct ccttgcacct ttgtgccaag aaaggcctat 660
28   gaaaagtaaa cactgacttt tgaaagcaaa aaaaaaaaaa aaaaaa 705
29 <210> SEQ ID NO 2
30 <211> LENGTH: 180
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 2
34   Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile Phe
35       1             5             10             15
36   Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg Lys Gly Gln
37             20             25             30
38   Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln Val Pro Leu Asp
39             35             40             45
40   Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu Glu Tyr Glu Arg
41             50             55             60
42   Asn Ile Glu Glu Met Val Ala Gln Leu Arg Asn Ser Ser Glu Leu Ala
43             65             70             75             80
44   Gln Arg Lys Cys Glu Val Asn Leu Gln Leu Trp Met Ser Asn Lys Arg

```

PAGE: 2

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/115,832B

DATE: 10/01/1999  
TIME: 17:15:44

Input Set: I115832B.RAW

```

45              85              90              95
46  Ser Leu Ser Pro Trp Gly Tyr Ser Ile Asn His Asp Pro Ser Arg Ile
47              100              105              110
48  Pro Val Asp Leu Pro Glu Ala Arg Cys Leu Cys Leu Gly Cys Val Asn
49              115              120              125
50  Pro Phe Thr Met Gln Glu Asp Arg Ser Met Val Ser Val Pro Val Phe
51              130              135              140
52  Ser Gln Val Pro Val Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr
53  145              150              155              160
54  Gly Pro Cys Arg Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys
55              165              170              175
56  Thr Cys Ile Phe
57              180

```

58 &lt;210&gt; SEQ ID NO 3

59 &lt;211&gt; LENGTH: 155

60 &lt;212&gt; TYPE: PRT

61 &lt;213&gt; ORGANISM: Homo sapiens

62 &lt;400&gt; SEQUENCE: 3

```

63  Met Thr Pro Gly Lys Thr Ser Leu Val Ser Leu Leu Leu Leu Ser
64    1              5              10              15
65  Leu Glu Ala Ile Val Lys Ala Gly Ile Thr Ile Pro Arg Asn Pro Gly
66              20              25              30
67  Cys Pro Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val Met Val Asn
68              35              40              45
69  Leu Asn Ile His Asn Arg Asn Thr Asn Thr Asn Pro Lys Arg Ser Ser
70              50              55              60
71  Asp Tyr Tyr Asn Arg Ser Thr Ser Pro Trp Asn Leu His Arg Asn Glu
72              65              70              75              80
73  Asp Pro Glu Arg Tyr Pro Ser Val Ile Trp Glu Ala Lys Cys Arg His
74              85              90              95
75  Leu Gly Cys Ile Asn Ala Asp Gly Asn Val Asp Tyr His Met Asn Ser
76              100              105              110
77  Val Pro Ile Gln Gln Glu Ile Leu Val Leu Arg Arg Glu Pro Pro His
78              115              120              125
79  Cys Pro Asn Ser Phe Arg Leu Glu Lys Ile Leu Val Ser Val Gly Cys
80              130              135              140
81  Thr Cys Val Thr Pro Ile Val His His Val Ala
82  145              150              155

```

83 &lt;210&gt; SEQ ID NO 4

84 &lt;211&gt; LENGTH: 498

85 &lt;212&gt; TYPE: DNA

86 &lt;213&gt; ORGANISM: Homo sapiens

87 &lt;220&gt; FEATURE:

88 &lt;221&gt; NAME/KEY: misc\_feature

89 &lt;222&gt; LOCATION: (13)

90 &lt;223&gt; OTHER INFORMATION: n equals a, t, g, or c

91 &lt;220&gt; FEATURE:

92 &lt;221&gt; NAME/KEY: misc\_feature

93 &lt;222&gt; LOCATION: (58)

94 &lt;223&gt; OTHER INFORMATION: n equals a, t, g, or c

PAGE: 3

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/115,832BDATE: 10/01/1999  
TIME: 17:15:44

Input Set: I115832B.RAW

95 <220> FEATURE:  
96 <221> NAME/KEY: misc\_feature  
97 <222> LOCATION: (173)  
98 <223> OTHER INFORMATION: n equals a, t, g, or c  
99 <220> FEATURE:  
100 <221> NAME/KEY: misc\_feature  
101 <222> LOCATION: (179)  
102 <223> OTHER INFORMATION: n equals a, t, g, or c  
103 <220> FEATURE:  
104 <221> NAME/KEY: misc\_feature  
105 <222> LOCATION: (213)  
106 <223> OTHER INFORMATION: n equals a, t, g, or c  
107 <220> FEATURE:  
108 <221> NAME/KEY: misc\_feature  
109 <222> LOCATION: (288)  
110 <223> OTHER INFORMATION: n equals a, t, g, or c  
111 <220> FEATURE:  
112 <221> NAME/KEY: misc\_feature  
113 <222> LOCATION: (312)  
114 <223> OTHER INFORMATION: n equals a, t, g, or c  
115 <220> FEATURE:  
116 <221> NAME/KEY: misc\_feature  
117 <222> LOCATION: (314)  
118 <223> OTHER INFORMATION: n equals a, t, g, or c  
119 <220> FEATURE:  
120 <221> NAME/KEY: misc\_feature  
121 <222> LOCATION: (323)  
122 <223> OTHER INFORMATION: n equals a, t, g, or c  
123 <220> FEATURE:  
124 <221> NAME/KEY: misc\_feature  
125 <222> LOCATION: (331)  
126 <223> OTHER INFORMATION: n equals a, t, g, or c  
127 <220> FEATURE:  
128 <221> NAME/KEY: misc\_feature  
129 <222> LOCATION: (337)  
130 <223> OTHER INFORMATION: n equals a, t, g, or c  
131 <220> FEATURE:  
132 <221> NAME/KEY: misc\_feature  
133 <222> LOCATION: (340)  
134 <223> OTHER INFORMATION: n equals a, t, g, or c  
135 <220> FEATURE:  
136 <221> NAME/KEY: misc\_feature  
137 <222> LOCATION: (348)  
138 <223> OTHER INFORMATION: n equals a, t, g, or c  
139 <220> FEATURE:  
140 <221> NAME/KEY: misc\_feature  
141 <222> LOCATION: (363)  
142 <223> OTHER INFORMATION: n equals a, t, g, or c  
143 <220> FEATURE:  
144 <221> NAME/KEY: misc\_feature

PAGE: 4

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/115,832BDATE: 10/01/1999  
TIME: 17:15:44

Input Set: I115832B.RAW

145 <222> LOCATION: (365)  
146 <223> OTHER INFORMATION: n equals a, t, g, or c  
147 <220> FEATURE:  
148 <221> NAME/KEY: misc\_feature  
149 <222> LOCATION: (369)  
150 <223> OTHER INFORMATION: n equals a, t, g, or c  
151 <220> FEATURE:  
152 <221> NAME/KEY: misc\_feature  
153 <222> LOCATION: (375)..(376)  
154 <223> OTHER INFORMATION: n equals a, t, g, or c  
155 <220> FEATURE:  
156 <221> NAME/KEY: misc\_feature  
157 <222> LOCATION: (386)  
158 <223> OTHER INFORMATION: n equals a, t, g, or c  
159 <220> FEATURE:  
160 <221> NAME/KEY: misc\_feature  
161 <222> LOCATION: (391)  
162 <223> OTHER INFORMATION: n equals a, t, g, or c  
163 <220> FEATURE:  
164 <221> NAME/KEY: misc\_feature  
165 <222> LOCATION: (393)  
166 <223> OTHER INFORMATION: n equals a, t, g, or c  
167 <220> FEATURE:  
168 <221> NAME/KEY: misc\_feature  
169 <222> LOCATION: (395)  
170 <223> OTHER INFORMATION: n equals a, t, g, or c  
171 <220> FEATURE:  
172 <221> NAME/KEY: misc\_feature  
173 <222> LOCATION: (398)  
174 <223> OTHER INFORMATION: n equals a, t, g, or c  
175 <220> FEATURE:  
176 <221> NAME/KEY: misc\_feature  
177 <222> LOCATION: (403)..(405)  
178 <223> OTHER INFORMATION: n equals a, t, g, or c  
179 <220> FEATURE:  
180 <221> NAME/KEY: misc\_feature  
181 <222> LOCATION: (407)  
182 <223> OTHER INFORMATION: n equals a, t, g, or c  
183 <220> FEATURE:  
184 <221> NAME/KEY: misc\_feature  
185 <222> LOCATION: (409)  
186 <223> OTHER INFORMATION: n equals a, t, g, or c  
187 <220> FEATURE:  
188 <221> NAME/KEY: misc\_feature  
189 <222> LOCATION: (413)  
190 <223> OTHER INFORMATION: n equals a, t, g, or c  
191 <220> FEATURE:  
192 <221> NAME/KEY: misc\_feature  
193 <222> LOCATION: (415)..(416)  
194 <223> OTHER INFORMATION: n equals a, t, g, or c

PAGE: 5

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/115,832BDATE: 10/01/1999  
TIME: 17:15:44

Input Set: I115832B.RAW

195 <220> FEATURE:  
196 <221> NAME/KEY: misc\_feature  
197 <222> LOCATION: (420)  
198 <223> OTHER INFORMATION: n equals a, t, g, or c  
199 <220> FEATURE:  
200 <221> NAME/KEY: misc\_feature  
201 <222> LOCATION: (423)  
202 <223> OTHER INFORMATION: n equals a, t, g, or c  
203 <220> FEATURE:  
204 <221> NAME/KEY: misc\_feature  
205 <222> LOCATION: (428)  
206 <223> OTHER INFORMATION: n equals a, t, g, or c  
207 <220> FEATURE:  
208 <221> NAME/KEY: misc\_feature  
209 <222> LOCATION: (433)  
210 <223> OTHER INFORMATION: n equals a, t, g, or c  
211 <220> FEATURE:  
212 <221> NAME/KEY: misc\_feature  
213 <222> LOCATION: (435)..(436)  
214 <223> OTHER INFORMATION: n equals a, t, g, or c  
215 <220> FEATURE:  
216 <221> NAME/KEY: misc\_feature  
217 <222> LOCATION: (440)  
218 <223> OTHER INFORMATION: n equals a, t, g, or c  
219 <220> FEATURE:  
220 <221> NAME/KEY: misc\_feature  
221 <222> LOCATION: (450)  
222 <223> OTHER INFORMATION: n equals a, t, g, or c  
223 <220> FEATURE:  
224 <221> NAME/KEY: misc\_feature  
225 <222> LOCATION: (452)..(453)  
226 <223> OTHER INFORMATION: n equals a, t, g, or c  
227 <220> FEATURE:  
228 <221> NAME/KEY: misc\_feature  
229 <222> LOCATION: (460)  
230 <223> OTHER INFORMATION: n equals a, t, g, or c  
231 <220> FEATURE:  
232 <221> NAME/KEY: misc\_feature  
233 <222> LOCATION: (465)  
234 <223> OTHER INFORMATION: n equals a, t, g, or c  
235 <220> FEATURE:  
236 <221> NAME/KEY: misc\_feature  
237 <222> LOCATION: (467)  
238 <223> OTHER INFORMATION: n equals a, t, g, or c  
239 <220> FEATURE:  
240 <221> NAME/KEY: misc\_feature  
241 <222> LOCATION: (470)  
242 <223> OTHER INFORMATION: n equals a, t, g, or c  
243 <220> FEATURE:  
244 <221> NAME/KEY: misc\_feature

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I115832B.RAW

Line	?	Error/Warning	Original Text
256	W	"N" or "Xaa" used: Feature required	aattcggcac gantccaggc gggcagcagc tgcaggct
258	W	"N" or "Xaa" used: Feature required	cccaggagcc ccaaaagcaa gaggaagggg caagggcg
259	W	"N" or "Xaa" used: Feature required	ctcaccaggt gccactggac ctggtgtcac ggntgaaa
260	W	"N" or "Xaa" used: Feature required	atgagaggaa catcgaggag atggtggccc agctgagg
261	W	"N" or "Xaa" used: Feature required	agaaagtgtg angntcaact ttncaagctt ntgggtnt
262	W	"N" or "Xaa" used: Feature required	ttncntggng gttannagta tgaatncaag nancncan
263	W	"N" or "Xaa" used: Feature required	tcnggagnac gtntnncttn ttttttgggn tnnttgaa
264	W	"N" or "Xaa" used: Feature required	ctagaattgn tnagggtg

PAGE: 1

RAW SEQUENCE LISTING  
 PATENT APPLICATION US/09/115,832B

DATE: 10/01/1999  
 TIME: 17:15:44

Input Set: I115832B.RAW

## PREVIOUSLY ERRORED SEQUENCES-EDITED

---

1	<210>	11	
2	<211>	126	
3	<212>	PRT	
4	<213>	Homo sapiens	
5	<400>	11	
6	Met	Asp	Trp
7	1	5	10
8	Leu	Gly	Leu
9	20	25	30
10	Gly	Arg	Pro
11	35	40	45
12	Leu	Val	Ser
13	50	55	60
14	Asn	Ile	Glu
15	65	70	75
16	Gln	Arg	Lys
17	85	90	95
18	Ser	Leu	Ser
19	100	105	110
20	Pro	Val	Asp
21	115	120	125